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IMAGERY
ANALYSIS
DIVISION

PIR

PHOTOGRAPHIC INTELLIGENCE REPORT

CONSTRUCTION STATUS OF SOVIET

SINGLE SILO ICBM SITES

Declassification Review by NIMA/DoD

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CIA/PIR 61119

DATE JUNE 1966

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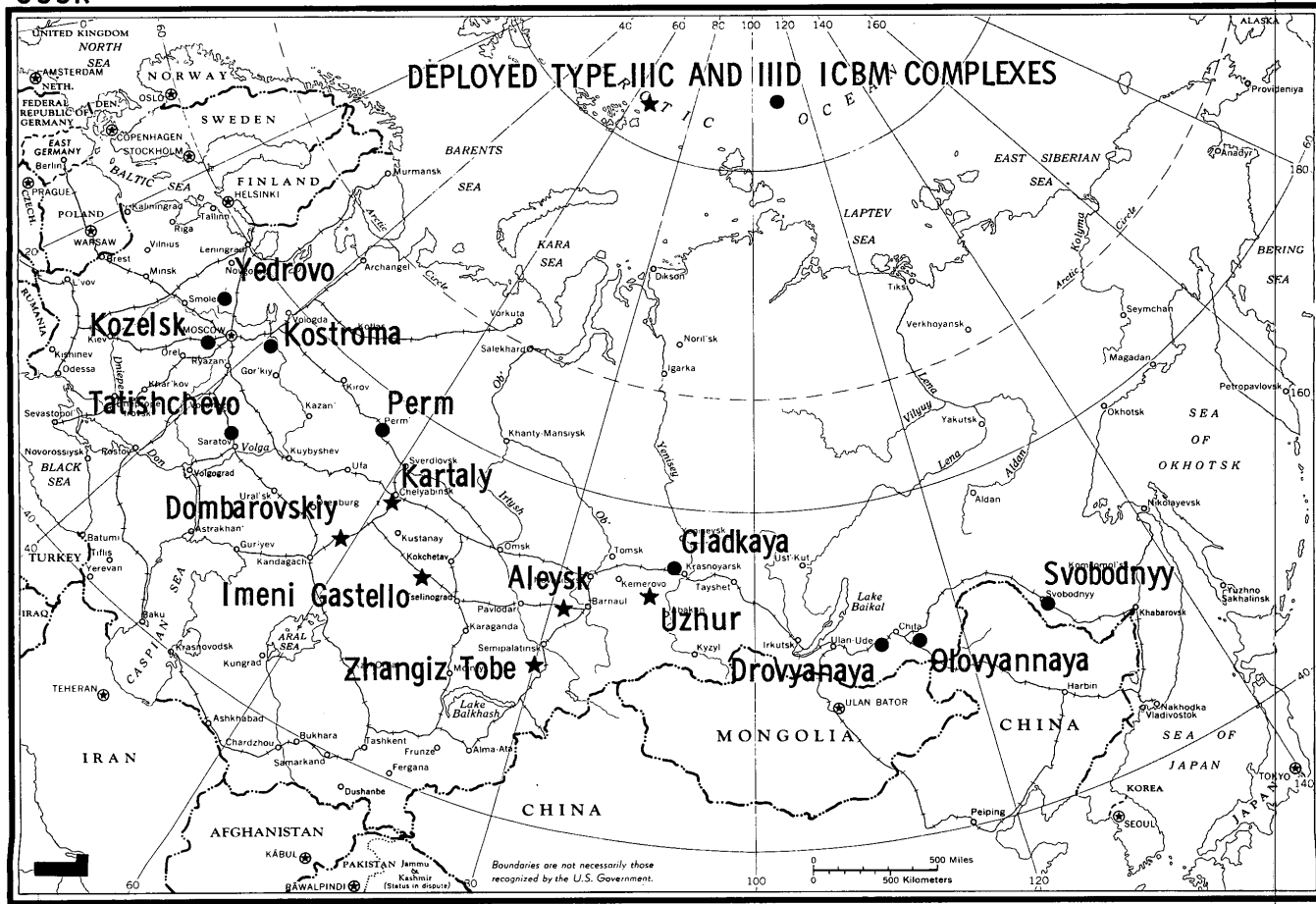
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CONSTRUCTION STATUS OF SOVIET
SINGLE SILO ICBM SITES

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CONSTRUCTION STATUS OF SOVIET SINGLE SILO ICBM SITES

Analysis of [] and a review of [] resulted in the identification of Type III-D small single silo deployment at four more of the original eighteen ICBM complexes--Svobodnyy, Kozelsk, Yedrovo, and Kostroma (Figure 1). Suspect activity also has been observed at Shadrinsk. Of the four new locations, Kozelsk was the most interesting and least anticipated, as it marked the first time that Type III-D sites have been identified at an SS-8 ICBM complex. There are now nine ICBM complexes where active deployment of Type III-D sites is currently taking place and new groups have been identified within the past month at each of these except Gladkaya, which has not had any interpretable coverage.

Of significance is a change in construction techniques of the small silos which has cut a month and a half from the construction schedule between stages I and V. This is probably primarily due to improved techniques in the construction of the silo and headworks. In addition, at many sites, the typical linear trench to the left of the silo, in which the rail-like objects are ultimately placed, has not been excavated and grading of the level access road has often been carried out simultaneously with the construction of the silo headworks. All of the sites started since [] have approximated the construction pace observed at Launch Group L at Tyuratam Missile Test Center (TTMTC), where sites were completed in a period of 12-14 months.

Deployment of the Type III-C large single silo has continued at a systematic rate at all six complexes with the exception of Dombarovskiy, where this year, two groups were started nearly simultaneously. This is the first time this practice has been observed at a III-C complex. However, coverage over these complexes has not been adequate to determine whether this occurred elsewhere.

Observations and General DiscussionType III-D ComplexesSvobodnyy

Elements of a confirmed group and a second probable group were identified on [] In addition to the notable speed-up of construction,

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this is the first Type III-D complex at which improved roads leading to the sites have been identified within the first few months of construction. Work started on the confirmed group in [] and on the probable group in []

Kozelsk

Deployment of Type III-D sites at this major SS-8 complex was confirmed on [] Six sites were noted; the earliest probably began in [] A new rail spur, road and several buildings have been added north of the transfer point.

Kostroma

One confirmed and one probable Type III-D site were identified on [] Work on the earliest of these sites probably started in [] The rest of the group is probably scattered to the east and south of the transfer point.

Yedrovo

Type III-D deployment was initially identified at Yedrovo on Mission [] A total of seven confirmed and four probable sites, possibly representing the near simultaneous deployment of two groups, were observed on [] All of these were first quarter [] starts.

Drovyannaya

Although [] over this complex was mostly cloud covered, it was possible to confirm a third group under construction, with a probable fourth group to the south. Review of previous missions resulted in upgrading the status of ten other sites previously reported in a DIA cable. A complex command control center at the transfer point was identified on [] No interferometer has yet been identified at this complex, and it is increasingly unlikely that the control centers at this complex will have associated interferometers.

Olovyannaya

A new control site identified on [] and a second site observed on [] confirmed the existence of a sixth group under construction

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to the east of Launch Group E. One site was confirmed, and two new ones identified to fill out Launch Group H to ten sites. The control site at Launch Group H is peculiar in that there is not adequate space within the present fence line for the installation of interferometer legs. Half of the sites in the 'D' group have been categorized as complete and it is probable that the remaining five sites in this group are also finished.

Tatishchevo

Seven confirmed or probable groups have now been identified at this complex. Three confirmed, eleven probable, and three possible sites were added during the period of this report [redacted] Silo covers were identified on two sites in the 'A' group indicating that this group is probably complete. Work on several of the sites in the 'C' group is a number of months behind schedule and no interferometer legs have yet been constructed at the control center, although they are evident at Launch Group D which started at a later date.

About midway between the Tatishchevo Complex Support Facility and the city of Atharsk (51-46-N 45-17E), a new rail siding has been added near a small village. This location is also midway between the 'D' and 'F' groups, suggesting that the siding may have been constructed as an off-loading point for construction materials.

Perm

Elements of a third launch group were identified east of the complex support facility. Most of these sites probably started in the second quarter of [redacted] however, only two had been covered by photography more than twice since [redacted] Nine sites have been identified as complete, and the probable operational status of the first group is suggested by the presence of a cylindrical object at site G-13, similar to canisters observed at Launch Areas G-5/6 and N-2/3 (G-8/9), TTMTT.

On the basis of placement and construction status, the sites at Perm have been tentatively broken down into three groups. When related to the established control sites, however, this grouping leaves much to be desired as far as fitting a normal pattern. No interferometer has yet been identified at this complex.

Gladkaya

The entire 'F' group has now been completed. The 'G' group was completely covered, with four new sites added to fill out the group. An additional site was confirmed in the 'H' group, but adequate search coverage of the surrounding area was not obtained to determine if another group is under construction.

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An anomaly in spacing is apparent between Launch Sites G-3 and G-9. This is the first instance in which two sites have been located within one nautical mile of each other.

No interferometer has yet been identified at this complex.

Type III-C ComplexesDombarovski

The third group was filled out, and three sites in a fourth were identified, putting Dombarovski, after a slow start, on a par with Uzhur as one of the large Type III-C complexes. Three sites have been completed in the 'A' group at this complex.

Aleysk

Of late, Aleysk has been the most poorly covered of the Type III-C complexes. As a result of the earthquake which forced the abandonment of Launch Site D, only two sites have been completed in this group. Launch Sites A-3 (E) and A-6 (B), located in an almost straight line on either side of old Launch Site D were also severely affected. Launch Site A-3 (E) is at least 15 months behind its original projected completion date and has shown no appreciable change in the last two months. Launch Site A-6 (B) is at least 11 months behind schedule.

Imeni Gastello

One site was confirmed which filled out the third group. The quality of [redacted] precluded the determination of construction details at this complex.

Kartaly

Six sites in a third group were confirmed at Kartaly. Of interest is the peculiar orientation of Launch Site Q, which is the only site at a Type III-C complex to be oriented more than a few degrees from any other in the same complex. The indicated firing azimuth is 250 degrees which is to the left of the other sites at this complex. This azimuth passes over Africa, as does that of one of the 'L' group, TTMT. A satisfactory explanation for either of these cases has yet to be advanced.

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Uzhur

Elements of a fourth group were identified on [] making Uzhur the first complex at which more than three groups had been confirmed. The quality of the coverage was poor, however, and it is probable that an entire group will be present on the next clear mission.

Zhanghiz Tobe

Zhanghiz Tobe, with a third probable group identified on [] has not been observed since []

Tyuratam Missile Test Center

Work is apparently proceeding at a slow pace on the 'M' group. These three sites remain in stage III, with no indications of start of construction of silo headworks.

Launch Sites I-2 and I-3 were seen in mono on [] The former has been in stage III for seven and a half months. This is four and a half months behind a normal construction pace, and there was little, if any, activity visible on this [] coverage. Launch Site I-3, in stage III for an estimated six and a half months, likewise showed no apparent signs of activity. The coring was not visible on this coverage.

Explanation of Construction Timing Sheets

With this report, IAD has begun using a new format for reporting the construction status of single silos. All [] missions, subsequent to [] have been listed on each sheet and all known single silos will be accounted for whether or not they have been observed during the time frame of any individual report. This will both establish continuity for the user and illustrate at a glance the number of instances an individual site has been observed over a period of time.

A new system for designating Type III-C sites has also be adopted by IAD. Since it has been determined that there are six sites in a Type III-C group, it is logical and desirable to associate the sites within a group in a meaningful manner. Accordingly, each control site has been designated as number one, preceded by a letter prefix indicating the group and the other five sites in a group are numbered sequentially counterclockwise. This is

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not only associates individual sites with their control, but also groups them in a general manner according to approximate starting and completion dates. In instances where a control site has not yet been identified, sites will be carried by their TDI and/or NPIC designator until such identification is made. Type III-D sites will continue to be carried in groups of ten. Sites not associated with any specific group that have been identified near the transfer point at several complexes have been arbitrarily designated "Launch Site X."

TDI designators for all sites are indicated on the accompanying status sheets. Also included in this report are maps graphically illustrating relative placement of sites and groups at each complex (Figures 2-16). As indicated in the legend for each sheet, the following abbreviations and symbols will be consistently used:

- * Probable Site
- ** Possible Site
- *** Suspect Site
- N Negation Date for Site
- ID Site Identification Only (Construction Status cannot be Determined)
- C Completed Site
- + Control Site

Upon being judged complete, a site will continue to be carried in the reports but each separate coverage will not be listed as this requirement relates only to following the construction history of single silos. If it is deemed desirable, another series of reports with a different format may be published in the future which would give a continuous portrayal of activity at each site as observed on photography after the site is completed.

Definitions of the construction stages are as follows:

Type III-C

<u>Stage</u>	<u>Description</u>
Negation	Site construction not yet started
1	Clearing and grading
2	Open cut excavation
3	Coring visible
4A	Ramps/forms under construction for silo
4B	Clearing and excavation for guidance and control

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<u>Stage</u>	<u>Description</u>
5	Silo per se finished (to surface level)
6A	Backfill silo
6B	Control and guidance under construction
7	Silo door installed
8	Control and guidance finished
9	Final backfill and grading (final signature)
ID Only	Site can be located but construction details are not discernible

Type III-D

<u>Stage</u>	<u>Description</u>
Negation	Site construction not yet started
1	Clearing and grading
2	Open cut excavation
3	Coring visible
4A	Ramps/forms under construction for silo
4B	Clearing and excavation for guidance and control
5	Silo per se finished (to surface level)
6A	Installation of rail-like objects
6B	Guidance/control under construction
7	Road pattern well-defined, environmental cover often visible over silo
8	Guidance/control completed
9	Level access road complete, surfacing of road and installation of silo door
ID Only	Site can be located but construction details are not discernible

Control sites are at times found to be concurrently in two stages of construction, one for the silo and the other for the control facilities. For instance, a site may be in stage 9 and 6B at the same time. This will be expressed in the tabulation as ⁹6B with the silo construction stage being listed over that of the control facility.

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REFERENCES

PHOTOGRAPHY



DOCUMENTS

K1 [] CIA/PIR-61110, Construction Status of Soviet Single Silo
ICBM Sites (March 1966) (TOP SECRET []) 5

REQUIREMENT

C-RR6-83,595

CIA/IAD PROJECT

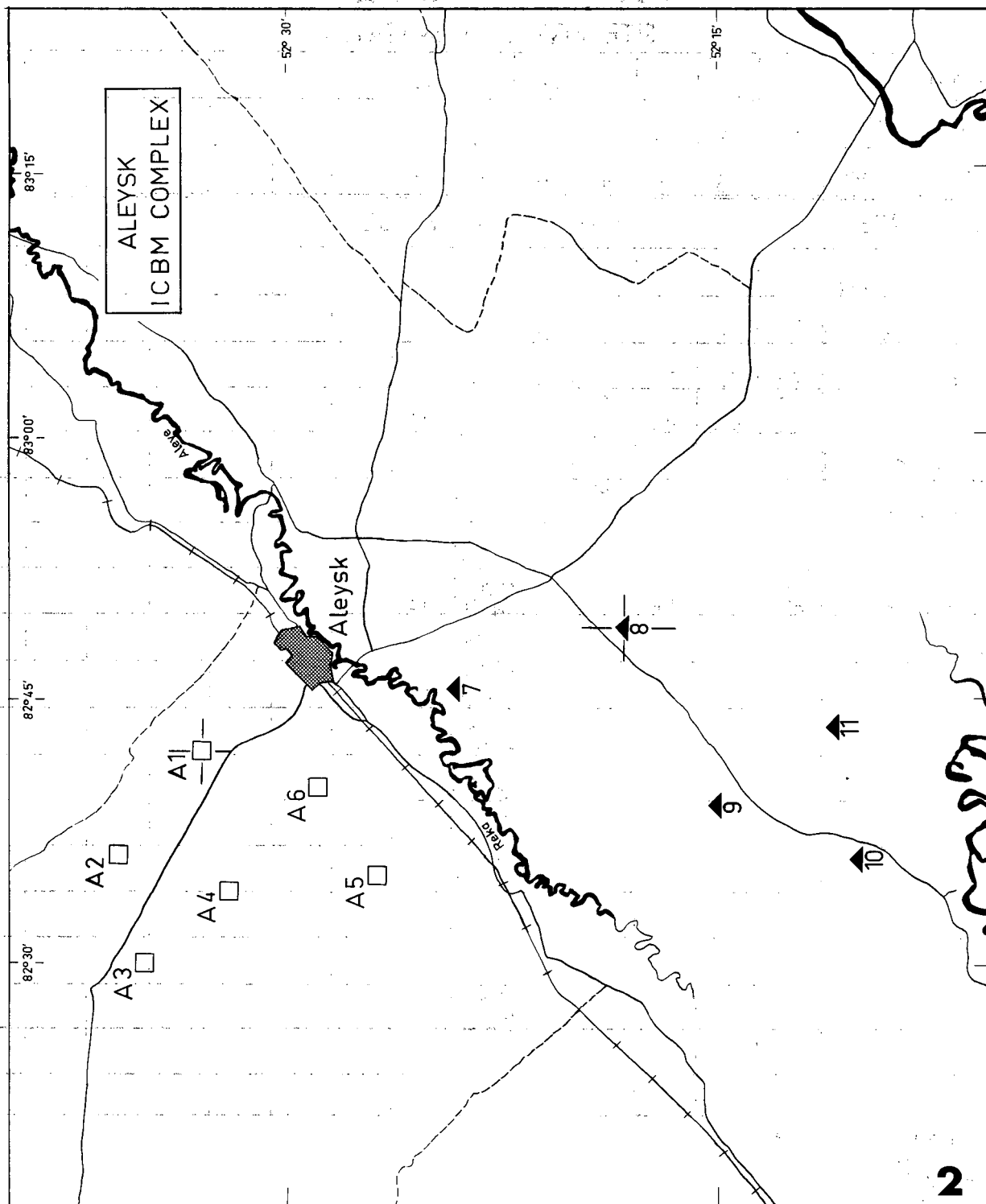
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ALEYSK ICBM COMPLEX

SITE CONSTRUCTION STATUS

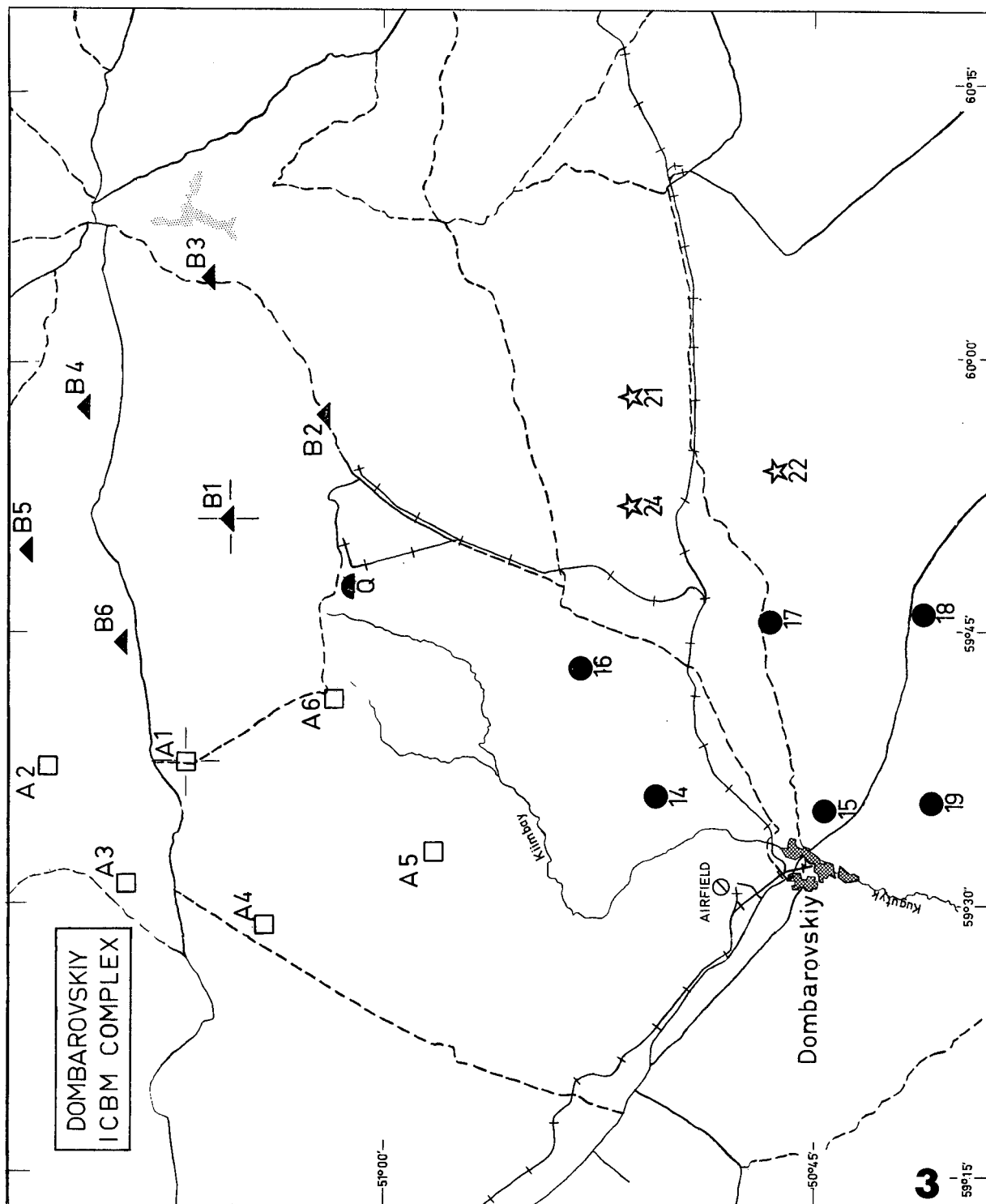
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DOMBAROVSKIY ICBM COMPLEX

SITE CONSTRUCTION STATUS

LAUNCH SITE	A1+	A2	A3	A4	A5	A6			B1+	B2	B3	B4	B5	B6
PREVIOUS DESIGNATION	B	A	F	E	D	C			J	I	L	K	G	H
TDI SITE DESIGNATION	3	4	7	6	1	2			9	8	13	12	11	10
MISSION/DATE	CONSTRUCTION STAGE													
	9	9	ID	6A	6A	9			4A 4B	4A	2	4A	4A	4A
	ID	ID	ID	ID	ID	ID			ID	ID	ID	ID	ID	ID
	C	C			ID	C			4A			ID	4A	4A
	6B								6B			ID		
	ID		ID	ID	ID				ID	ID	ID	ID	ID	ID
	6B													
	ID		ID		ID				ID	ID	ID	ID	ID	ID
					6A				6B	4A	4A	4A		

* Probable site
 ** Possible site
 *** Suspect site
 N Negation
 ID Identification only
 C Completed site
 + Control site

REMARKS:

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DOMBAROVSKIY ICBM COMPLEX

SITE CONSTRUCTION STATUS

[illegible]

* Probable site
** Possible site
*** Suspect site
N Negation
ID Identification only
C Completed site
+ Control site

REMARKS: Site 18 was negated on

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DOMBAROVSKIY ICBM COMPLEX

SITE CONSTRUCTION STATUS

X1

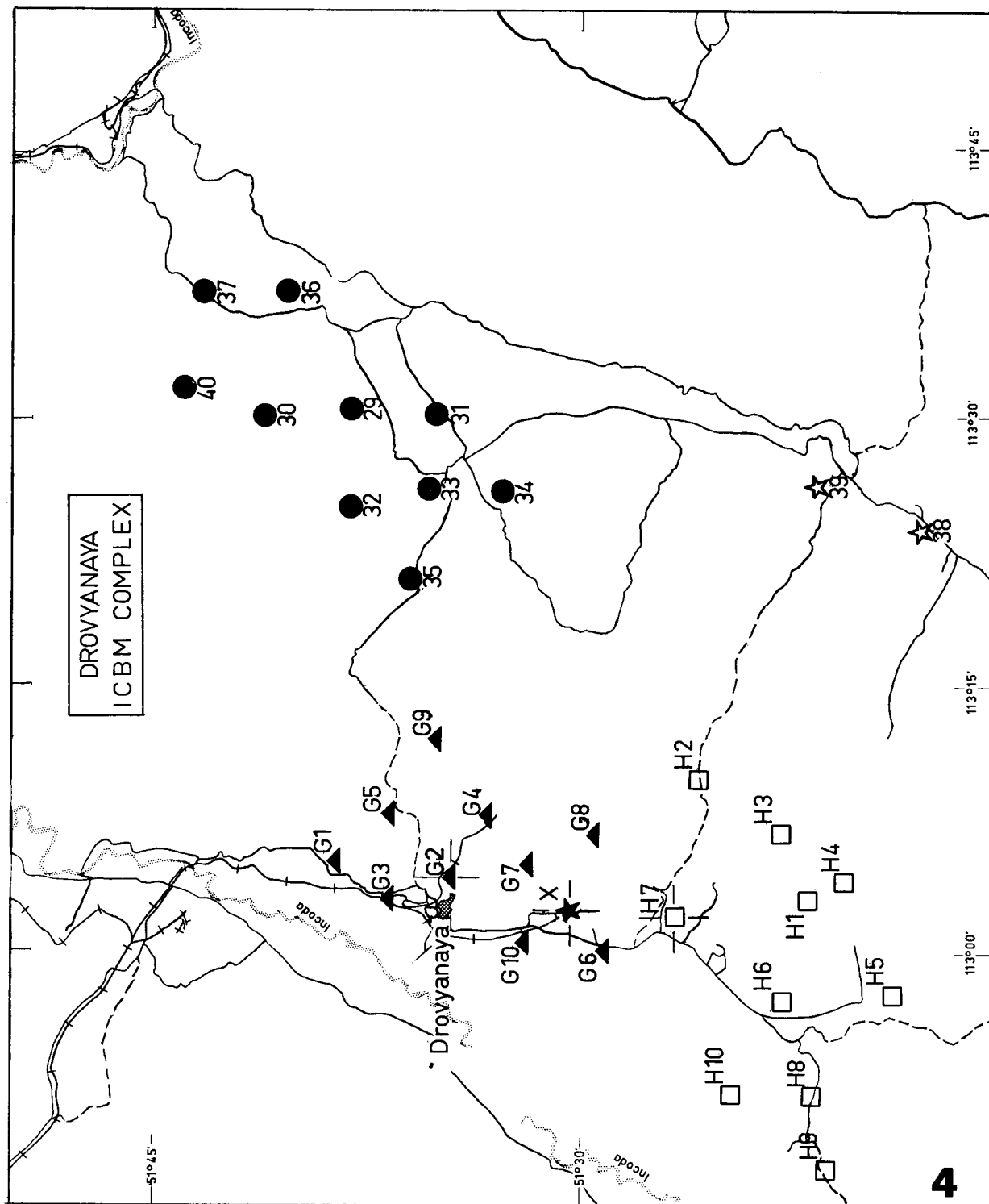
* Probable site
** Possible site
*** Suspect site
N Negation
ID Identification only
C Completed site
+ Control site

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SITE CONSTRUCTION STATUS

[illegible]

* Probable site
** Possible site
*** Suspect site
N Negation
ID Identification only
C Completed site
+ Control site

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DROVYANAYA ICBM COMPLEX
SITE CONSTRUCTION STATUS

LAUNCH SITE	H1	H2	H3	H4	H5	H6	H7+	H8	H9	H10				
PREVIOUS DESIGNATION														
TDI SITE DESIGNATION	22	23	24	21	25	20	15	19	26	28				
MISSION/DATE	CONSTRUCTION STAGE													
	9	9	9	9	9	9	9 ⁹ 6B	9	ID	ID				
	9	9	9	9		9	9 ⁹ 6B	ID		9				
	ID	ID	ID	ID	ID	ID	ID ⁹	ID	ID	ID				
	ID	ID	9	9	9	9	9 ⁹ 6B	9	9	ID				
								ID	9	ID				
	9	9	9	9	9	9	9 ⁹ 6B							
		ID	ID			ID	ID	ID	ID	9				

* Probable site
** Possible site
*** Suspect site
N Negation
ID Identification only
C Completed site
+ Control site

REMARKS:

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DROVYANAYA ICBM COMPLEX

SITE CONSTRUCTION STATUS

* Probable site
** Possible site
*** Suspect site
N Negation
ID Identification only
C Completed site
+ Control site

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DROVYANAYA ICBM COMPLEX SITE CONSTRUCTION STATUS

LAUNCH SITE																			
PREVIOUS DESIGNATION																			
TDI SITE DESIGNATION	38*	39*																	
MISSION/DATE	CONSTRUCTION STAGE																		
		ID																	
	N	ID																	
	ID	ID																	

- * Probable site
- ** Possible site
- *** Suspect site
- N Negation
- ID Identification only
- C Completed site
- + Control site

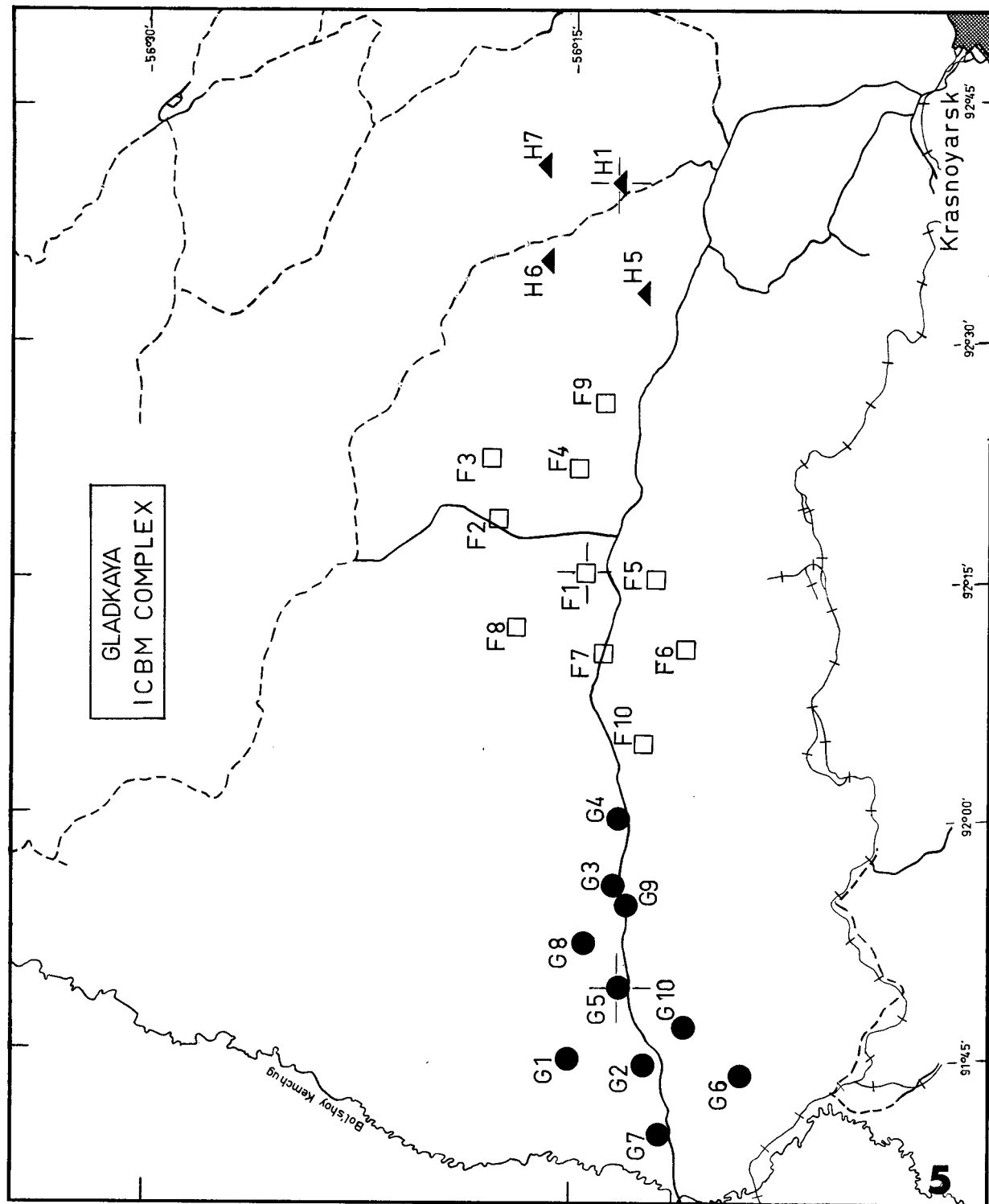
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GLADKAYA ICBM COMPLEX

SITE CONSTRUCTION STATUS

LAUNCH SITE	G1	G2	G3	G4	G5+	G6	G7	G8	G9	G10*				
PREVIOUS DESIGNATION														
TDI SITE DESIGNATION	16	17	18	21	23	24	19	40	39	38				
MISSION/DATE	CONSTRUCTION STAGE													
	TD	TD	TD	TD	TD	TD	TD	TD	TD	TD				
	TD	TD	TD	TD	TD	TD			TD					
	9	9	9	ID	⁹ 6B	9	9	9	9	ID				
				9					9					

* Probable site
 ** Possible site
 *** Suspect site
 N Negation
 ID Identification only
 C Completed site
 + Control site

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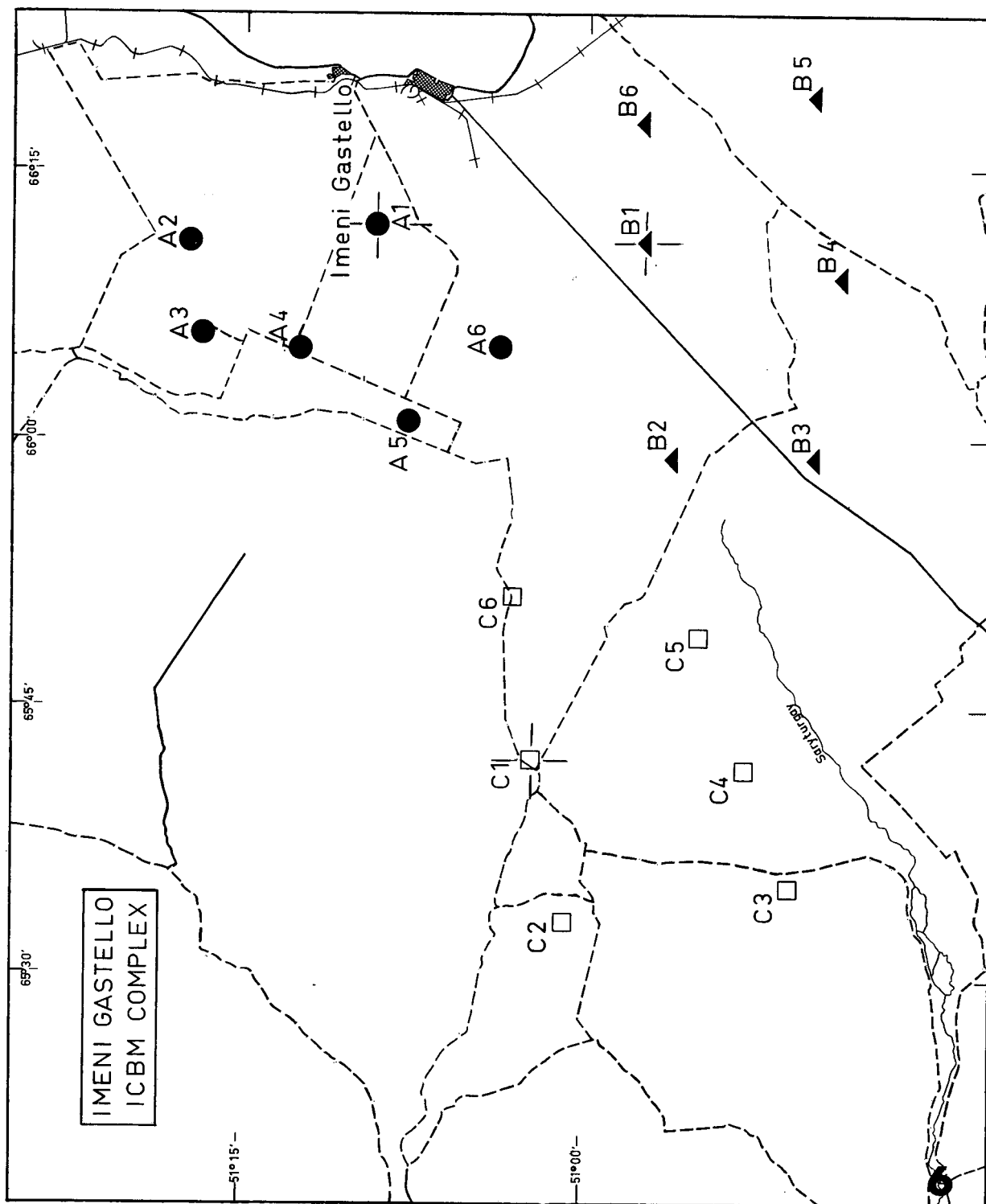
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IMENI GASTELLO ICBM COMPLEX

SITE CONSTRUCTION STATUS

[illegible]

- * Probable site
** Possible site
*** Suspect site
N Negation
ID Identification only
C Completed site
+ Control site

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IMENI GASTELLO ICBM COMPLEX

SITE CONSTRUCTION STATUS

LAUNCH SITE	C1+	C2	C3	C4	C5	C6								
PREVIOUS DESIGNATION	Q	R	O	N	M	P								
TDI SITE DESIGNATION	17	18	15	14	13	16								
MISSION / DATE	CONSTRUCTION STAGE													
	ID	1	1	ID	ID	ID								
	ID	ID	2	ID	ID	ID								
					ID	ID								
	ID	ID	ID	ID	ID	ID								

* Probable site
** Possible site
*** Suspect site
N Negation
ID Identification only
C Completed site
+ Control site

REMARKS: Sites C1, C2, C3, C4, and C6 were negated on

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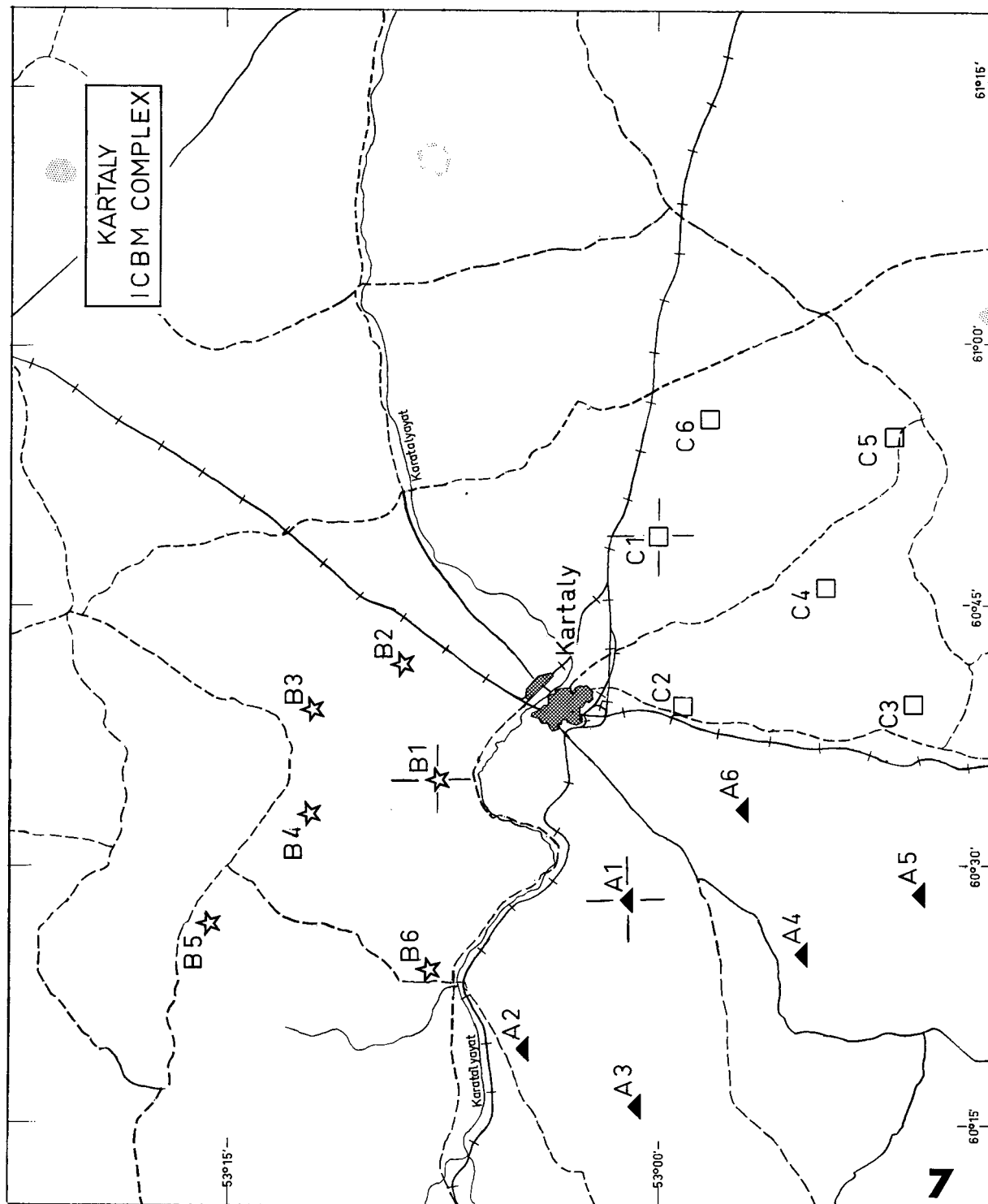
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KARTALY ICBM COMPLEX

SITE CONSTRUCTION STATUS

LAUNCH SITE	A1+	A2	A3	A4	A5	A6			B1+	B2	B3	B4	B5	B6
PREVIOUS DESIGNATION	A	F	E	C	D	B			H	G	J	K	P	I
TDI SITE DESIGNATION	1	6	5	3	4	2			8	7	12	11	13	10
MISSION / DATE	CONSTRUCTION STAGE													
	ID	ID	ID	ID	ID	ID			ID	ID	ID	ID	ID	ID
				ID		ID								
	ID	ID	ID	ID	C	C			ID 6B	ID	4A	ID	ID	ID
									ID					
	ID	ID	ID	ID					ID 6B	ID	ID	ID	ID	ID

* Probable site
** Possible site
*** Suspect site
N Negation
ID Identification only
C Completed site
+ Control site

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KARTALY ICBM COMPLEX SITE CONSTRUCTION STATUS

LAUNCH SITE	C1+	C2	C3	C4	C5	C6									
PREVIOUS DESIGNATION	N	O	Q	M	R	L									
TDI SITE DESIGNATION	14	15	18	19	21	20									
MISSION/DATE	CONSTRUCTION STAGE														
	ID	ID	N	N	N	N									
	ID	ID													
	ID	3	3	3	3	3									
	ID		3	3	3	3									

- * Probable site
- ** Possible site
- *** Suspect site
- N Negation
- ID Identification only
- C Completed site
- + Control site

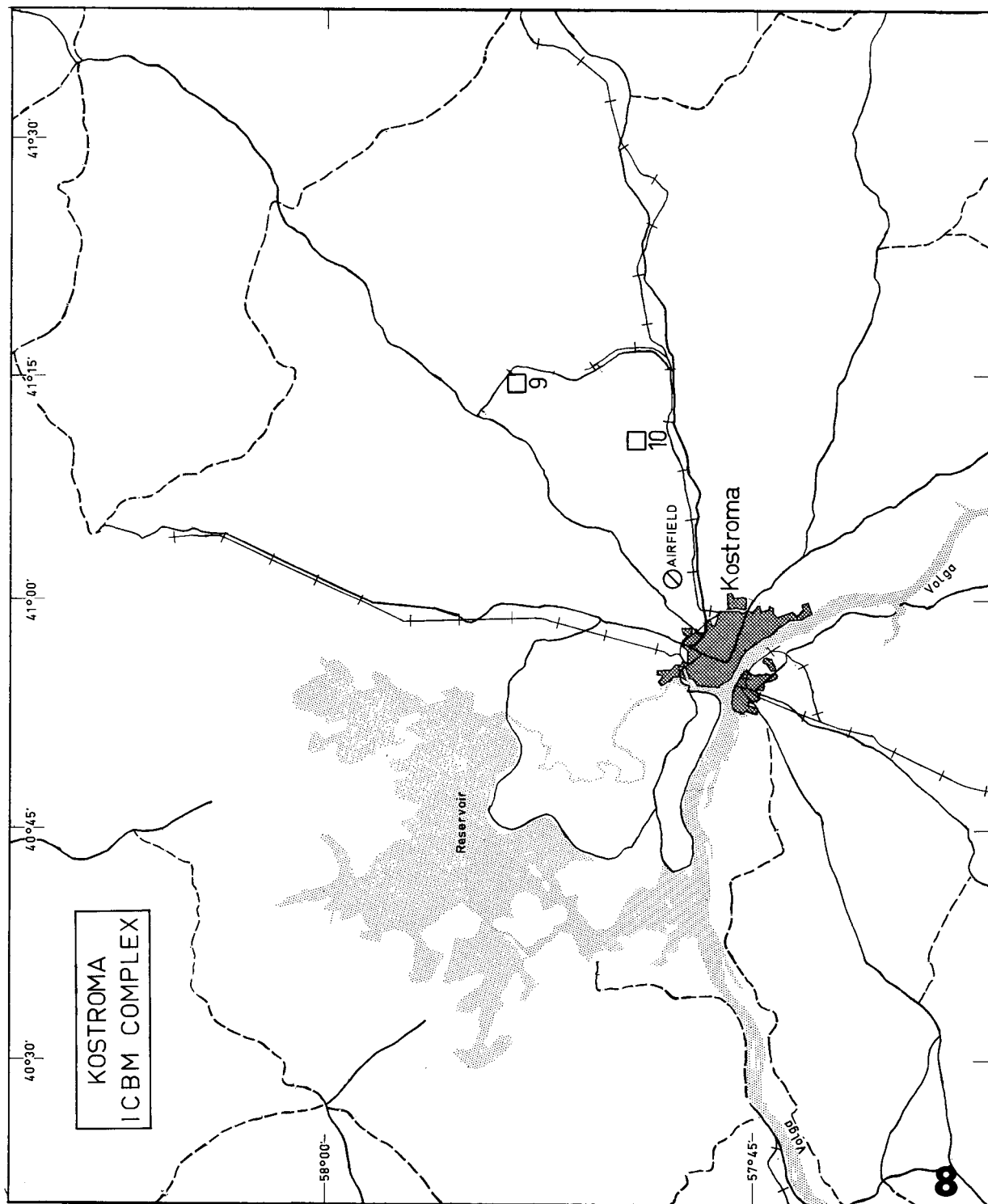
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KOSTROMA ICBM COMPLEX SITE CONSTRUCTION STATUS

LAUNCH SITE																			
PREVIOUS DESIGNATION																			
TDI SITE DESIGNATION	9	10*																	
MISSION/DATE	CONSTRUCTION STAGE																		
	ID	N																	
	5	ID																	

- * Probable site
- ** Possible site
- *** Suspect site
- N Negation
- ID Identification only
- C Completed site
- + Control site

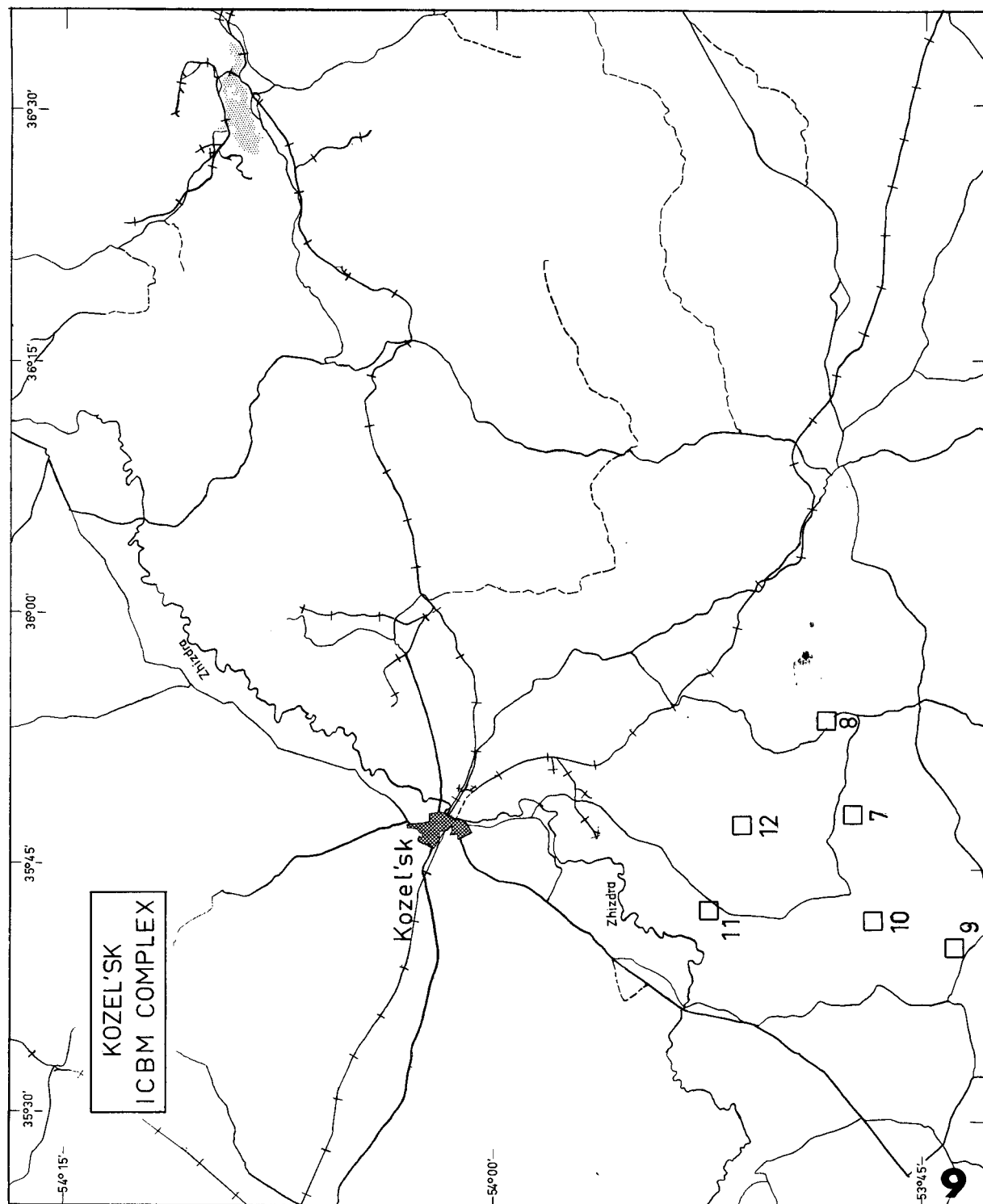
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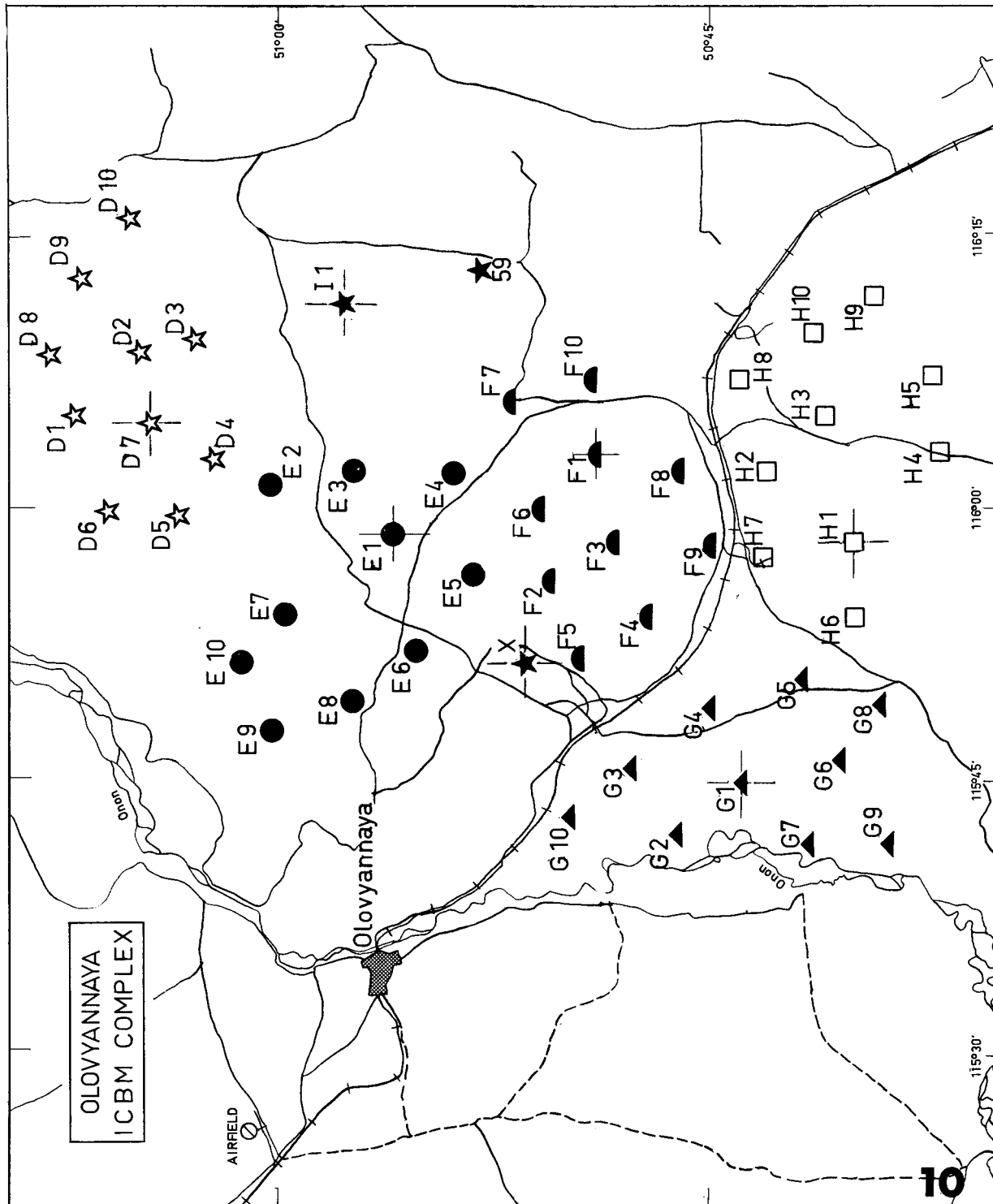
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OLOVYANNAYA ICBM COMPLEX

SITE CONSTRUCTION STATUS

LAUNCH SITE	X+		D1	D2	D3	D4	D5	D6	D7+	D8	D9	D10		
PREVIOUS DESIGNATION	F1													
TDI SITE DESIGNATION	24		4	5	7	8	9	10	6	12	13	11		
MISSION/DATE	CONSTRUCTION STAGE													
	ID 6B		9	9	9	9	9	9	9 6B	9	9	9		
	ID 6A 6B		ID	ID	ID	ID	ID	ID	ID	ID	ID	ID		
	ID		ID	ID	ID	ID	ID	ID	ID	ID	ID	ID		
	ID			ID	ID	C	ID	ID						
				C	C				ID		C	C		

- * Probable site
- ** Possible site
- *** Suspect site
- N Negation
- ID Identification only
- C Completed site
- + Control site

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SITE CONSTRUCTION STATUS

LAUNCH SITE	E1+	E2	E3	E4	E5	E6	E7	E8	E9	E10				
PREVIOUS DESIGNATION														
TDI SITE DESIGNATION	17	14	15	16	19	18	20	21	22	23				
MISSION/DATE	CONSTRUCTION STAGE													
	9 6B	9	9	9	9	9	9	9	9	ID				
			ID	9										
	ID 9	ID	ID	ID	ID	ID	ID	ID	ID	ID				
	6B		ID	ID	9	9	9	9	9	ID				
	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID				
	ID	9	9	9	9	9	9	9	9	ID				

* Probable site
** Possible site
*** Suspect site
N Negation
ID Identification only
C Completed site
+ Control site

REMARKS:

~~TOP SECRET~~25X
25X

CIA/PTR-61119

CIA IMAGERY ANALYSIS DIVISION

OLOVYANNAYA ICBM COMPLEX

SITE CONSTRUCTION STATUS

[illegible]

* Probable site
** Possible site
*** Suspect site
N Negation
ID Identification only
C Completed site
+ Control site

REMARKS: In previous reports Site F2 was carried as F3, F3 as F4, F4 as F5, and F5 as F2.

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OLOVYANNAYA ICBM COMPLEX

SITE CONSTRUCTION STATUS

CONSTRUCTION STAGE

REMARKS:

25>
25>

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CIA IMAGERY ANALYSIS DIVISION

OLOVYANNAYA ICBM COMPLEX

SITE CONSTRUCTION STATUS

[illegible]

* Probable site
** Possible site
*** Suspect site
N Negation
ID Identification only
C Completed site
+ Control site

REMARKS:

CIA IMAGERY ANALYSIS DIVISION

OLOVYANNAYA ICBM COMPLEX

SITE CONSTRUCTION STATUS

[illegible]

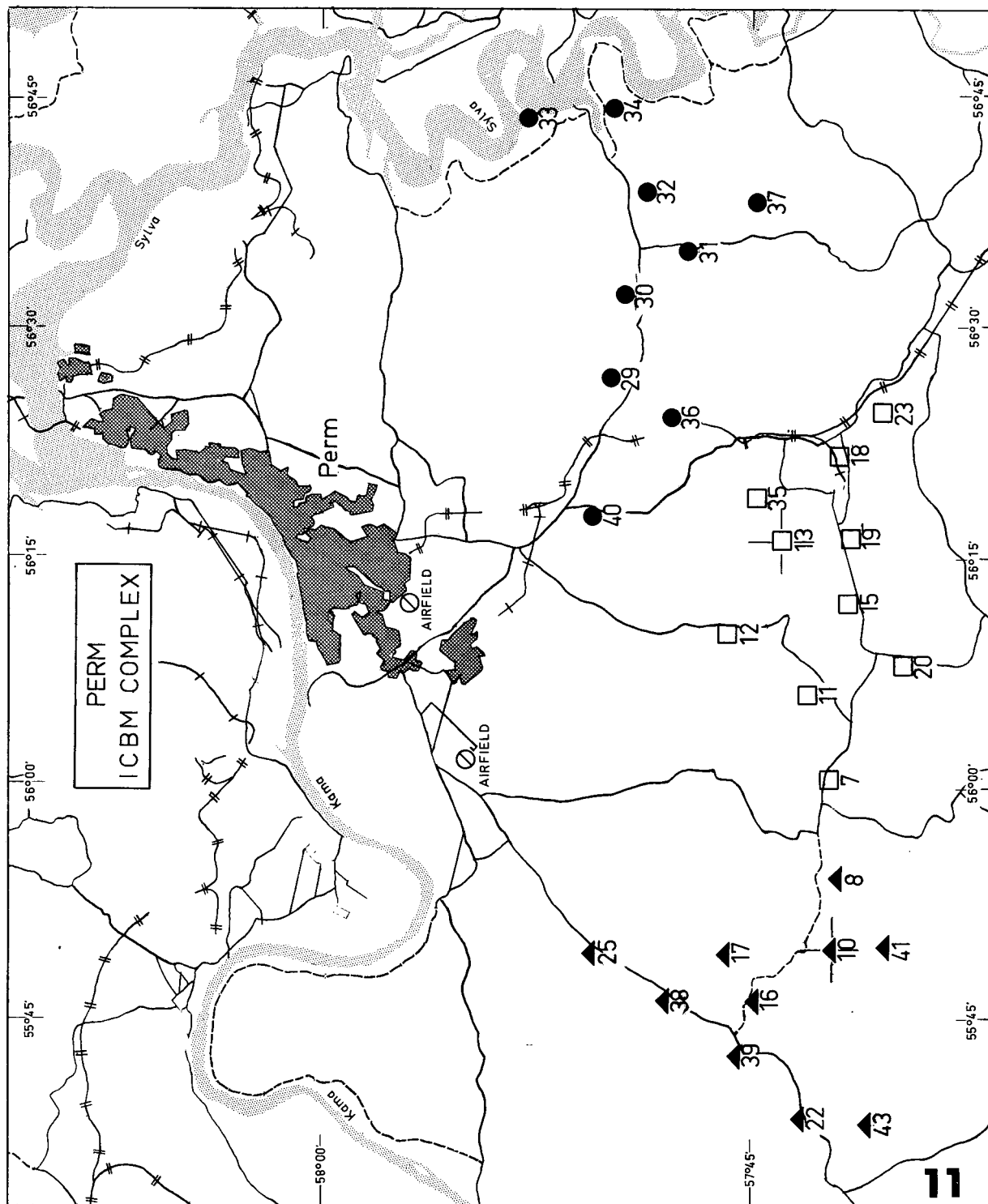
* Probable site
** Possible site
*** Suspect site
N Negation
ID Identification only
C Completed site
+ Control site

REMARKS:

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TOP SECRET

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CIA IMAGERY ANALYSIS DIVISION

PERM ICBM COMPLEX
SITE CONSTRUCTION STATUS

LAUNCH SITE	H1	H2	H3	H4	H5	H6	H7	H8**	H9					
PREVIOUS DESIGNATION														
TDI SITE DESIGNATION	29	30	31	32	33	34	36	37	40					
MISSION/DATE	CONSTRUCTION STAGE													
	ID	ID	ID	ID	ID	ID	ID	ID	ID					
	ID						ID		ID					
	9	9	9	9	9	9	7	ID	ID					
							7		7					
									ID					

* Probable site
** Possible site
*** Suspect site
N Negation
ID Identification only
C Completed site
+ Control site

REMARKS:

TOP SECRET

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25X

25X
25X

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PERM ICBM COMPLEX SITE CONSTRUCTION STATUS

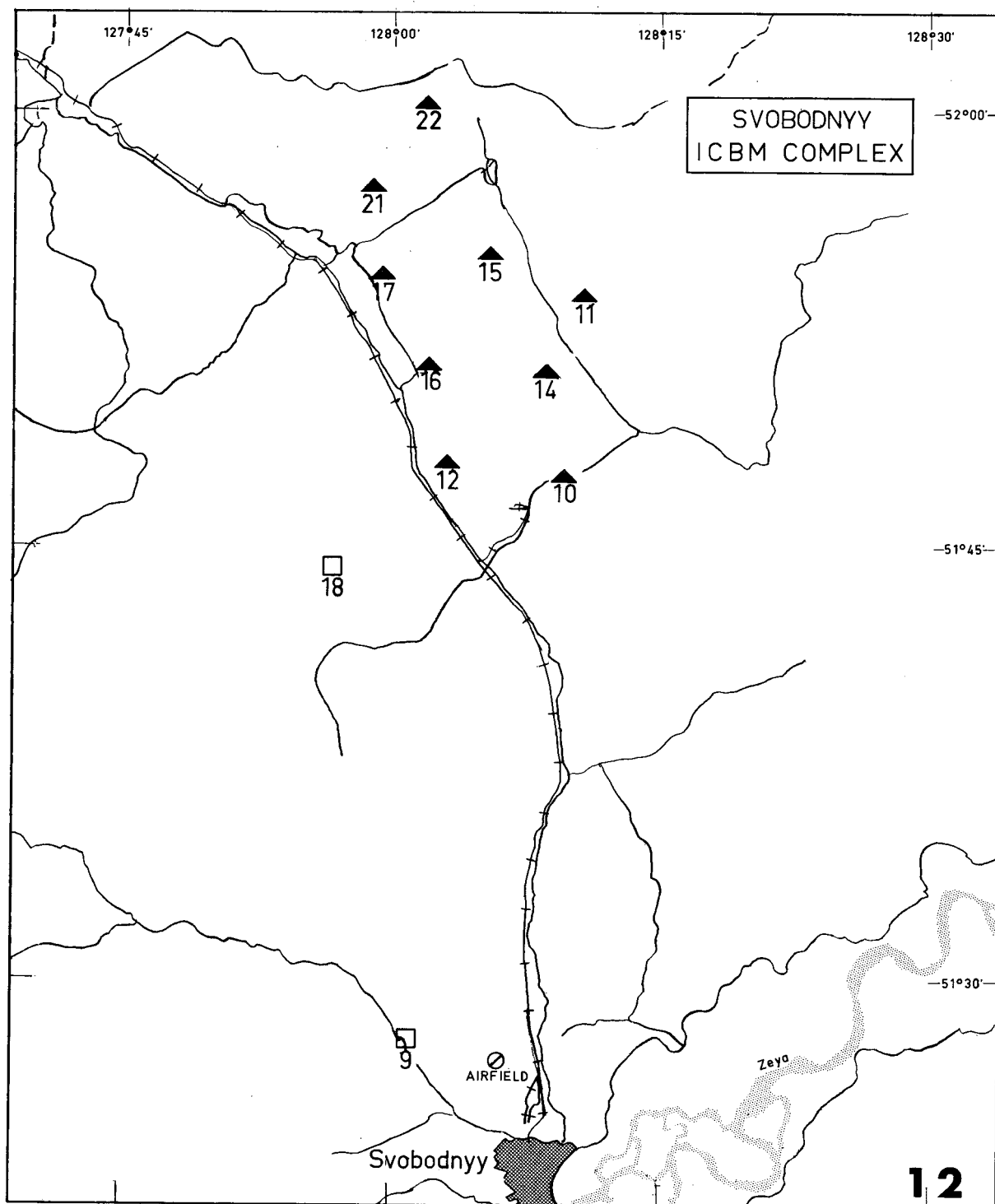
25X

REMARKS:

TOP SECRET

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TOP SECRET

SITE CONSTRUCTION STATUS

* Probable site
** Possible site
*** Suspect site
N Negation
ID Identification only
C Completed site
+ Control site

25X

CIA IMAGERY ANALYSIS DIVISION

SVOBODNY ICBM COMPLEX

SITE CONSTRUCTION STATUS

[illegible]

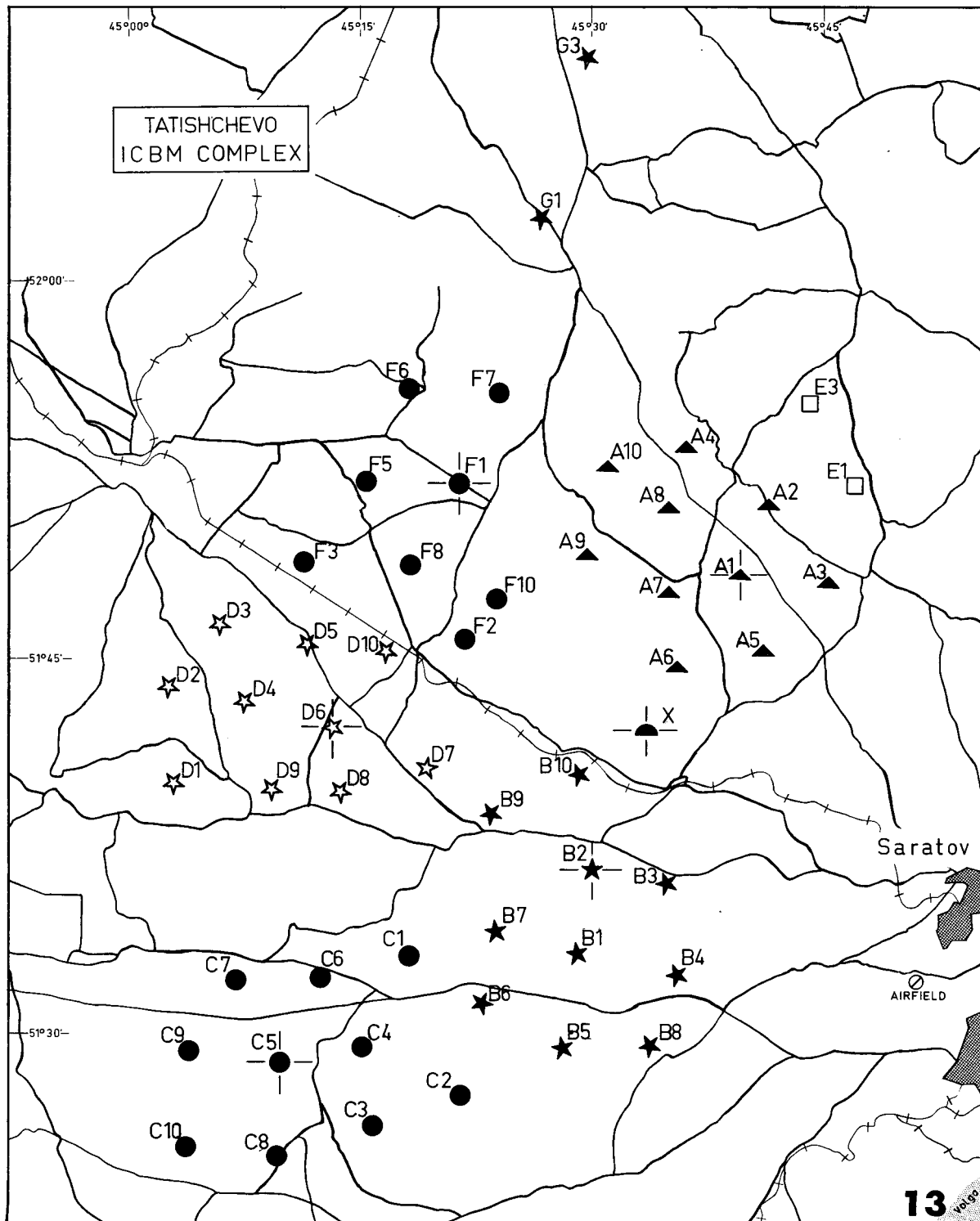
* Probable site
** Possible site
*** Suspect site
N Negation
ID Identification only
C Completed site
+ Control site

REMARKS:

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TOP SECRET

X1

X1

* Probable site
** Possible site
*** Suspect site
N Negation
ID Identification only
C Completed site
+ Control site

REMARKS:

TATISHCHEVO ICBM COMPLEX

SITE CONSTRUCTION STATUS

* Probable site
** Possible site
*** Suspect site
N Negation
ID Identification only
C Completed site
+ Control site

REMARKS:

~~TOP SECRET~~

CIA IMAGERY ANALYSIS DIVISION

SITE CONSTRUCTION STATUS

* Probable site
** Possible site
*** Suspect site
N Negation
ID Identification only
C Completed site
+ Control site

REMARKS:

TOP SECRET

1

1

1

1

1

1

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SITE CONSTRUCTION STATUS

REMARKS: All sites in the group were negated on

1

1

1

1

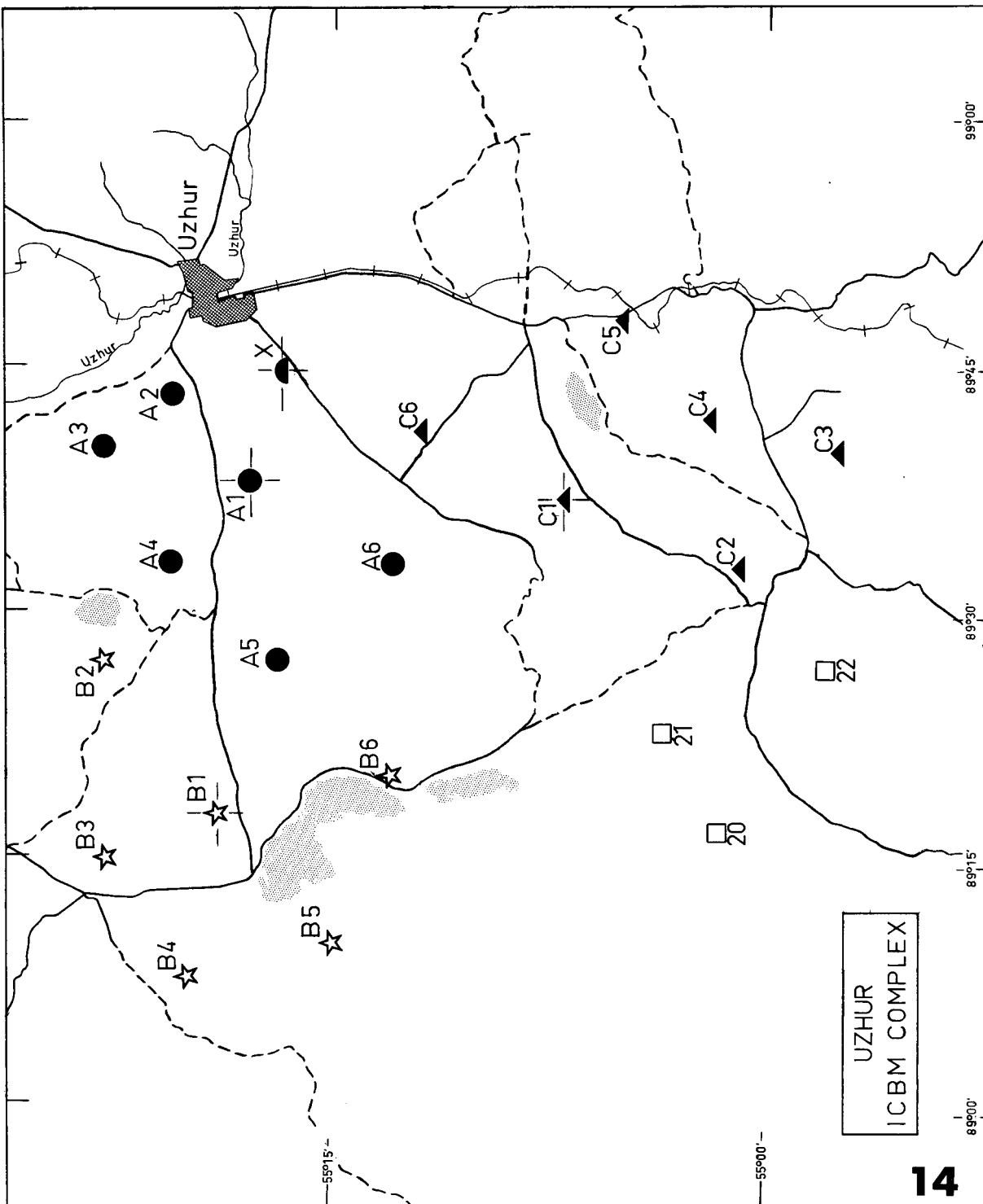
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CIA IMAGERY ANALYSIS DIVISION

UZHUR ICBM COMPLEX

SITE CONSTRUCTION STATUS

LAUNCH SITE	A1+	A2	A3	A4	A5	A6			B1+	B2	B3	B4	B5	B6
PREVIOUS DESIGNATION	B	A	F	C	D	E			H	G	N	J	K	I
TDI SITE DESIGNATION	2	1	6	3	4	5			8	7	14	10	11	9
MISSION/DATE	CONSTRUCTION STAGE													
	C								4A				ID	
	8	C	C	C	C	C			6B	4A				
									ID	ID	4A	4A	ID	

- * Probable site
- ** Possible site
- *** Suspect site
- N Negation
- ID Identification only
- C Completed site
- + Control site

REMARKS:

TOP SECRET

UZHUR ICBM COMPLEX

SITE CONSTRUCTION STATUS

REMARKS:

CIA IMAGERY ANALYSIS DIVISION

UZHUR ICBM COMPLEX

SITE CONSTRUCTION STATUS

[illegible]

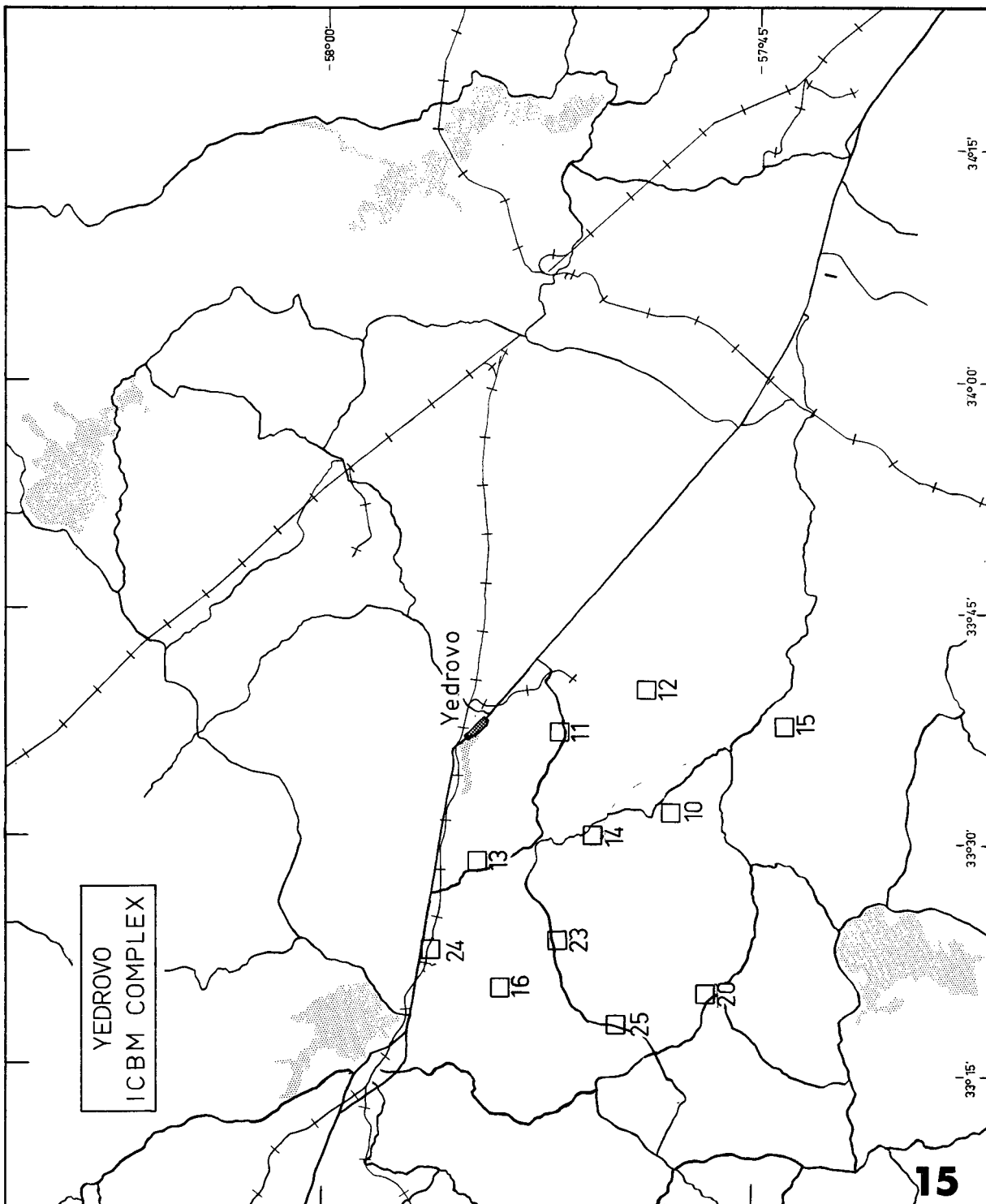
- * Probable site
** Possible site
*** Suspect site
N Negation
ID Identification only
C Completed site
+ Control site

REMARKS: Site 21 was negated on

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CIA IMAGERY ANALYSIS DIVISION



TOP SECRET

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TOP SECRET

YEDROVO ICBM COMPLEX

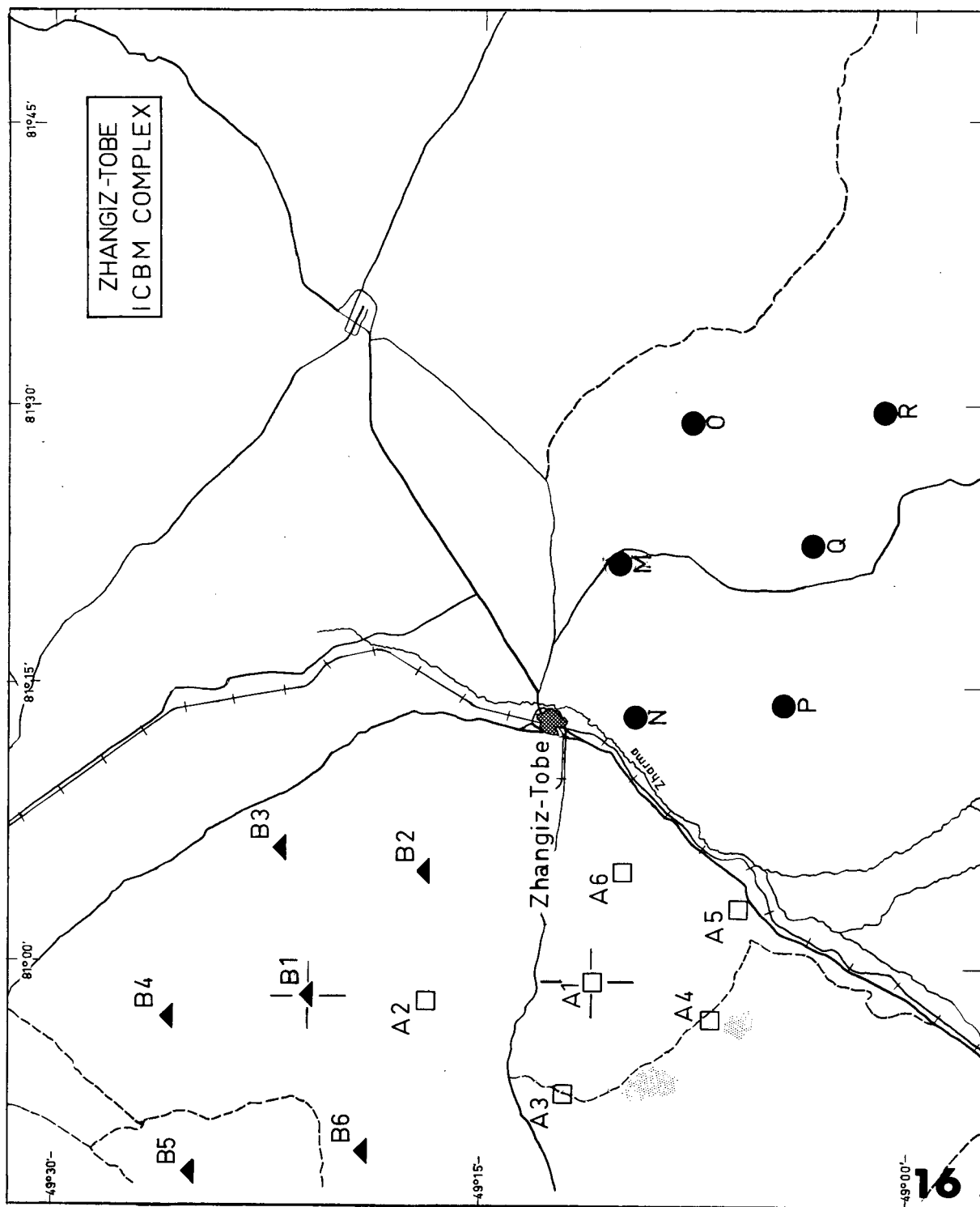
SITE CONSTRUCTION STATUS

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25X

TOP SECRET

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REMARKS:

* Probable site
** Possible site
*** Suspect site
N Negation
ID Identification only
C Completed site
+ Control site

REMARKS:

TYURATAM MISSILE TEST CENTER

SITE CONSTRUCTION STATUS

25x

REMARKS: Sites I1, I4, and I5 were complete on
Control Facilities at I1 were cinple

SITE CONSTRUCTION STATUS

* Probable site
** Possible site
*** Suspect site
N Negation
ID Identification only
C Completed site
+ Control site

REMARKS: Site N1 was complete on
and N3 were complete on

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